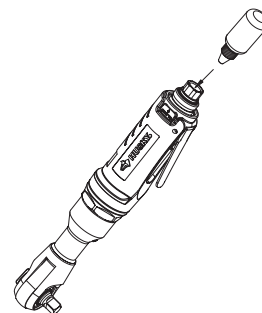


# Maintenance

Ensure the air line is shut-off and drained of air before removing this tool for service. This will prevent the tool from operating if the throttle is accidentally engaged.

## LUBRICATION

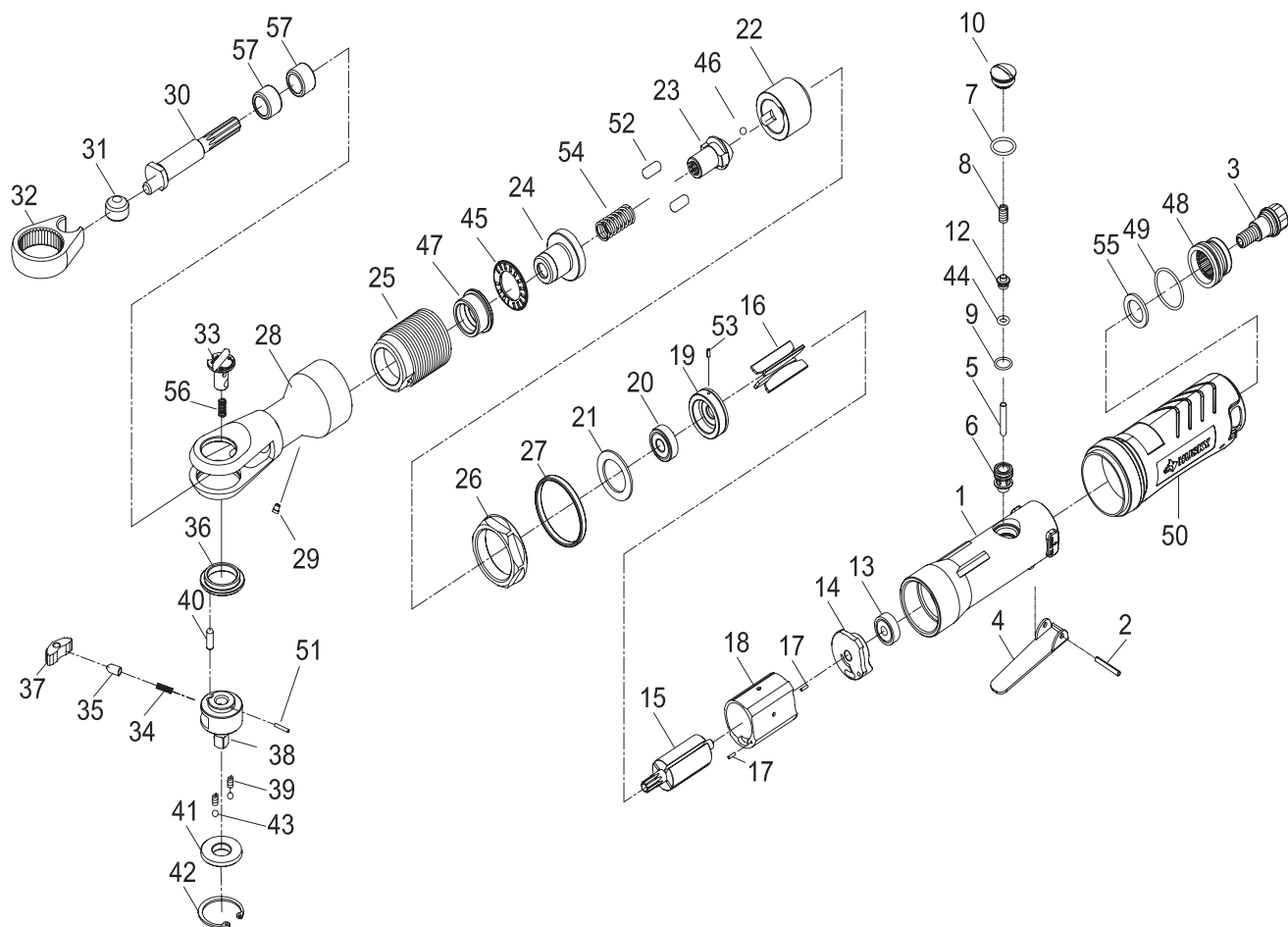
- An in-line filter-regulator-lubricator is recommended as it increases tool life and keeps the tool in sustained operation.
- Regularly check and fill the in-line lubricator with air tool oil. Avoid using excessive amounts of oil.
- Adjust the in-line lubricator by placing a sheet of paper next to the tool's exhaust ports and holding the throttle open approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper.
- If it is necessary to store the tool for an extended period of time (overnight, weekend, etc.), generously lubricate the tool through the air inlet. Run the tool for approximately 30 seconds to ensure the oil is evenly distributed throughout the tool. Store the tool in a clean and dry environment.
- Recommended lubricants: Air tool oil or any other high grade turbine oil containing moisture absorbent, rust inhibitors, metal wetting agents, and an EP (extreme pressure) additive.



## Troubleshooting

Problem	Possible Cause	Solution
The tool runs slowly or will not operate.	There is grit or gum in the tool.	Flush the tool with air tool oil or gum solvent.
	The tool is out of oil.	Lubricate the tool according to the lubrication instructions in this manual.
	The air pressure is low.	<ul style="list-style-type: none"> <li>□ Adjust the regulator on the tool to the maximum setting.</li> <li>□ Adjust the compressor regulator to the tool's maximum setting of 90 psi.</li> </ul>
	The air hose leaks.	Tighten and seal the hose fittings with pipe thread tape if leaks are found.
	The air pressure drops.	<ul style="list-style-type: none"> <li>□ Ensure the hose is the proper size. Long hoses or tools using large volumes of air may require a hose with an I.D. of ½" or larger depending on the total length of the hose.</li> <li>□ Do not use a multiple number of hoses connected together with a quick connect fitting. This causes additional pressure drops and reduces the tool power. Directly connect the hoses together.</li> </ul>
	There is a worn rotor blade in the motor.	Replace the rotor blade.
There is moisture blowing out of the tool's exhaust.	There is a worn ball bearing in the motor.	Remove and inspect the bearing for rust, dirt, and grit. Replace or clean and grease the bearing with bearing grease.
	There is water in the tank.	Drain the tank. (See the air compressor manual for instructions.) Lubricate the tool and run it until water is not evident. Lubricate the tool again and run for 1-2 seconds.

# Service Parts



## Service Parts (continued)

Reference Number	Part Number	Description
1	933-312301	Housing
2	950102	Spring Pin
3	933-312303	Air Inlet
4	933-301304	Throttle Lever
5	933-301305	Throttle Valve
6	933-312306	Bushing
7	9706109	O-Ring
8	933-301308	Spring
9	90R01000105-1	O-Ring
10	933-312310	Valve Plug
12	933-301307	Throttle Valve
13	9052213	Ball Bearing
14	934-301714	Rear End Plate
15	934-301715	Rotor
16	930116	Rotor Blade (4)
17	930117	Spring Pin (2)
18	934-301718	Cylinder
19	934-301719	Front End Plate
20	9030120	Ball Bearing
21	934-301721	Washer
22	934-301740	Mechanism Housing
23	934-301734	Mechanism Anvil
24	934-301736	Mechanism Cover
25	934-301735	Coupling Sleeve
26	934-301717-12	Coupling Nut
27	9526212	Decoration Ring
28	934-301728	Ratchet Housing
29	941-401254	Oil Cap

Reference Number	Part Number	Description
30	934-301730	Crank Shaft
31	934-301729	Drive Bushing
32	933-301332	Yoke
33	934-301733	Reverse Button
34	934-301732	Spring
35	934-301731	Lock Pin
36	934-301741	Washer
37	930137	Ratchet Pawl
38	933-301738	Ratchet Anvil 3/8"
39	930139	Spring (2)
40	930140-1	Pin
41	934-301742	Thrust Washer
42	930142	Retainer Ring
43	930143	Steel Ball (2)
44	930107-V	O-Ring
45	90NTB1831	Thrust Bearing
46	9AS000143	Steel Ball
47	934-301724	Bushing
48	933-302311	Deflector
49	90R02607108	O-Ring
50	933-312352	Grip
51	9PN02000608	Pin
52	9PN06001108	Pin (2)
53	970117	Spring Pin
54	934-301752	Spring
55	933-302312	Damping Material
56	934-301753	Spring
57	9030129	Needle Bearing (2)